

Notice of Allowability

Application No.

09/803,349

Examiner

Chat C. Do

Applicant(s)

PAGE ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09/30/04 and 10/21/04 and 10/26/04.
2. ☒ The allowed claim(s) is/are 1-7,9-12 and 14-16.
3. ☒ The drawings filed on 08 March 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The specification of present application in page 1 lines 3-16 has been amended to update current information as follows:

[0001] This application is related to abandoned U.S. Patent Application Serial No. 09/802,744, filed concurrently herewith by inventors Joel Page, Wai Liang Lee and Erng Sing Wee, entitled "AN INTEGRATED CIRCUIT ARRANGEMENT FOR MULTIPLE-SENSOR WPES WITH ~~SELECTABLE FRONT ENDS~~ SELECTING A DIGITAL FILTER INPUT SIGNAL" (Morney Docket No. 1077-CS).

[0002] This application is related to U.S. Patent ~~Application~~ Serial No. 6,434,213, filed concurrently herewith, by inventor Trenton J. Grale, entitled "LOW-POWER LOW-AREA SHIFT REGISTER" (Attorney Docket No. 1076- CS).

[0003] This application is related to abandoned U.S. Patent Application Serial No. 09/803,350, filed concurrently herewith, by inventors Trenton J. Grale and Sijian Chen, entitled "PROGRAMMABLE TEST MODULATOR FOR SELECTIVELY

GENERATING TEST SIGNALS OF DELTA-SIGMA ORDER N" (Attorney Docket No. 1121-CS).

2. Claims 1-7, 9-12, and 14-16 are allowed.
3. Claims 8 and 13 are cancelled.
4. The following is an examiner's statement of reasons for allowance:

The prior art of records fails to disclose or render an obviousness of a programmable integrated circuit comprising a bus, a processor, a serial data output register; and a data interface for receiving external digital signal having different characteristics for filtering; wherein data interface provides an output selectively to one of two different sinc filters provided by the processor as cited in independent claims 1 and 15; wherein cells of the serial data output register not needed for delay operated in a reduced power mode in which power is removed from cells not needed for delay during reduce power mode as cited in independent claims 14 and 16.

The closes found prior art is Schreiber et al. (U.S. 6,456,219). Schreiber et al. disclose an analog-to-digital converter including delta-sigma modulator, decimation filter, and serial port interface that would operate in sleeping mode. The device comprises a bus, a processor, a serial data output register, and a data interface. However, Schreiber et al. fail to disclose the data interface provides an output selectively to one of two different sinc filters and the power is removed from cells not needed for delay during reduce power mode as cited above.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (571) 272-3721. The examiner can normally be reached on M => F from 7:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chat C. Do
Examiner
Art Unit 2124

March 10, 2005



KAKALI CHAKI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100